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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: UMD-0104

Inventors: Welsh et al.

Serial No.: 10/534,296

Filing Date: Not Yet Assigned

Examiner: Not Yet Assigned

Customer No.: 46046

Group Art Unit: Not Yet Assigned

Confirmation No.: Not Yet Assigned

Title: Novel Pharmacophore for the Discovery and Testing of NA, K-ATPase Inhibitor Compositions and Methods for Their Use in Treating Cardiovascular Diseases and Conditions

I, Jane Massey Licata, Registration No. 32,257, certify that this correspondence is being deposited with the U.S. Postal Service as First Class mail in an envelope addressed to the Commissioner for Patents P.O. Box 1450, Alexandria, VA 22313-1450

On this date: October 17, 2005


Jane Massey Licata, Registration No. 32,257

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

- (XX) In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.
- () In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, therefore:
- () Certification in Accordance with §1.97(e) is attached hereto; or
- () Authorization to charge Deposit Account No. 50-1619 the fee of \$180.00 as set forth in §1.17(p) is provided.
- () In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); Petition Requesting Consideration of the Information Disclosure Statement; and the fee of \$130.00 as set forth in §1.17(I) (1).
- (XX) Copies of each of the references listed on the attached Form PTO-1449 (modified) are enclosed herewith.

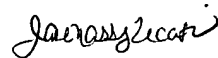
() In accordance with §1.98(d), copies of some or all of the references listed on the attached Form PTO-1449 (modified) are not enclosed herewith because they were previously submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____, filed _____, for which a claim for priority under 35 U.S.C. §120 has been made in the instant application.

Please charge any deficiency or credit any overpayment to Deposit Account No. 50-1619. This form is submitted in duplicate.

() The relevance of the listed references in a foreign language is as stated in the specification at pages @@.

(XX) All listed references are in the English language.

Respectfully submitted,



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Date: October 17, 2005

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Form PTO-1449 Modified List of Patents and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce	Docket No. UMD-0104	Serial No. 10/534,296
	Applicant Welsh et al.	
	Filing Date Not Yet Assigned	Group Not Yet Assigned

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AA	Bohacek et al., "Multiple Highly Diverse Structures Complementary to Enzyme Binding Sites: Results of Extensive Application of a de Novo Design Method Incorporating Combinatorial Growth", J. Am. Chem. Soc. 1994 116:5560-5571
	AB	DeWitte et al., "SmoG: de Novo Design Method Based on Simple, Fast, and Accurate Free Energy Estimates. 1. Methodology and Supporting Evidence", J. Am. Chem. Soc. 1996 118:11733-11744
	AC	Farr et al., "Three-Dimensional Quantitative Structure - Activity Relationship Study of the Inhibition of Na ⁺ ,K ⁺ -ATPase by Cardiotonic Steroids Using Comparative Molecular Field Analysis", Biochemistry 2002 41:1137-1148
	AD	Jones et al., "Molecular Recognition of Receptor Sites using a Genetic Algorithm with a Description of Desolvation", J. Mol. Biol. 1995 245:43-53
	AE	NCBI Genbank Accession No: P06685 [gi:114376] November 1, 1990 - May 1, 2005 with Revision History
	AF	NCBI Genbank Accession No: P05023 [gi:114374] March 1, 1992 - May 1, 2005 with Revision History
	AG	NCBI Genbank Accession No: P04074 [gi: 114388] November 1, 1990 - May 1, 2005 with Revision History
EXAMINER		DATE CONSIDERED